

METHOD OF USING A DISTINCT FLOW OF COMPUTATIONAL CONTROL AS A REUSABLE ABSTRACT DATA OBJECT

ABSTRACT OF THE DISCLOSURE

A method of parallel processing in which there is first provided a first thread
5 which represents an independent flow of control managed by a program structure, the
first thread having two states, a first state processing work for the program structure and a
second state undispached awaiting work to process; and a second thread which
represents an independent flow of control managed by a program structure separate from
the first thread. The method includes using the second thread to prepare work for the first
10 thread to process and placing the work prepared by the second thread in a queue for
processing by the first thread. If the first thread is awaiting work to process when the
work prepared by the second thread is placed in the queue, the method includes
dispatching the first thread and using it to process the work in the queue. If the first
thread is processing other work when the work prepared by the second thread is placed in
15 the queue, the method includes using the first thread to complete processing of the other
work, access the work in the queue, and then process the work in the queue.